COMBINED DECLARATION AND POWER OF ATTORNEY

As a below	named inventor, I hereby declare that:
This declara	tion is of the following type:
	original divisional continuation continuation-in-part
	INVENTORSHIP IDENTIFICATION
the original, (if plural nar	e, post office address and citizenship are as stated below next to my name. I believe I am first and sole inventor (if only one name is listed below) or an original, first and joint inventor nes are listed below) of the subject matter which is claimed and for which a patent is sought tion entitled:
APPA	RATUS FOR CONTROLLING GAS FLOW IN A SEMICONDUCTOR SUBSTRATE PROCESSING CHAMBER
	SPECIFICATION IDENTIFICATION
The specific	ation of which:
	is attached hereto was filed on, under Serial No, executed on even date herewith; or Express Mail No.(as Serial No. not yet known) and was amended on (if applicable) was described and claimed in PCT International Application No filed on and as amended under PCT Article 19 on
	ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
	ate that I have reviewed and understand the contents of the above-identified specification e claims, as amended by any amendment referred to above.
Title 37, Co namely, info	ge the duty to disclose all information I know to be material to patentability in accordance with de of Federal Regulations, §1.56, and which is material to the examination of this application or mation where there is a substantial likelihood that a reasonable Examiner would consider it deciding whether to allow the application to issue as a patent, and
	In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

	\boxtimes	No such	applications have b	een filed.			
		Such ap	plications have beer	filed as follows:			
A.		Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119					
	Coun	try/PCT	Application No	Date Filed	<u>Prio</u>	rity Claimed	
						'es □ No 'es □ No 'es □ No	
В.		eign app pplication		led more than 12 mos.	(6 mos for desig	ın) prior to this	
	Countr Applica Filing o	ation No:					
C.	U.S. P	rovisiona	al Application filed	within 12 months prior	to this applicati	on	
	<u>Serial</u>	No.		Filing Date			
			PRIORIT	Y CLAIM (35 U.S.C. §12	20)		
PCT in insofar applica acknow (name) importa	nternation as the stion(s) in the stion(s) in the stick and stick	nal applic subject n in the ma the duty nation wh eciding wi	cation(s) designating natter of each of the anner provided by the to disclose informatiere there is substantether to allow the a	ited States Code, §120, the United States of A claims of this application that is material to intial likelihood that a reapplication to issue as a national or PCT international	America that is/ard on is not disclose itle 35, United Single the examination asonable Examin patent) which oc	re listed below and d in that/those prio tates Code, §112, of this application er would consider in ccurred between the	
	\square		n applications have be pplications have been				
	Serial	NI	Filing Date	Patented	Status	Abandoned	
	Serial	IVIA)	Filing Date	Patenten	Pending	ADSDUODED	

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken Registration No. 33,217 Peter J. Sgarbossa Registration No. 25,610 Raymond Kam-On Kwong Registration No. 37,165 Joseph Bach Registration No. 37,771 James C. Wilson Registration No. 35,412 Robert W. Mulcahy Registration No. 25,436 B. Todd Patterson Registration No. 37,906 Raymond R. Moser, Jr. Registration No. 34,682 Keith M. Tackett Registration No. 32,008

Send correspondence to: Direct telephone calls to:

Patent Counsel
Applied Materials, Inc.

P.O. Box 450-A Santa Clara, CA 95052 Raymond R. Moser, Jr.

Moser, Patterson & Sheridan, LLP

(732) 530-9404

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or fi	rst inventor: KALLOL BERA	
Inventor's signature:	Kallol Bug	Date: 4/1/04
Residence:	2100 Fruitdale Avenue, Apt. #6 San Jose, CA 95128	
Post Office Address:	Same as above	
	U.S.A.	Country of Citizenship: India
Full name of second in	nventor: HEEYEOP CHAE	
Inventor's signature:	•	Date:
Residence:	1657 Tawnygate Way San Jose, CA 95124	
Post Office Address:	Same as above U.S.A.	Country of Citizenship: South Korea

Full name of third inventor: HAMID TAVASSOLI						
Inventor's signature:	Hamid Taisas	Date: HIIOH				
Residence:	9 07 Burbank Drive	19061 Tilson Avenue Cupertino CA95014				
D . 000 A	Santa Clara, CA 95051	Cupertino PAQ5014				
Post Office Address:	Same as above					
	U.S.A.	Country of Citizenship: U.S.A.				
Full name of fourth inventor: YAN YE						
Inventor's signature:	20	Date: 4-7-04				
Residence:	13271 Via Arriba Drive					
	Saratoga, CA 95070					
Post Office Address:	Same as above					
	U.S.A.	Country of Citizenship: U.S.A.				

(DECLARATION ENDS WITH THIS PAGE)

COMBINED DECLARATION AND POWER OF ATTORNEY

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This declaration	n is of the following type:
	original divisional continuation continuation-in-part
	INVENTORSHIP IDENTIFICATION
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namely, information	ne duty to disclose all information I know to be material to patentability in accordance with f Federal Regulations, §1.56, and which is material to the examination of this application; tion where there is a substantial likelihood that a reasonable Examiner would consider it ding whether to allow the application to issue as a patent, and
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No such applications have been filed.

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			• •						
		Such appl	ications have been	filed as foll	ows:				
A.			T application(s) if			mos. for	r design)	prior to	this
	<u>Coun</u>	try/PCT	Application No		Date Filed		Priority C	laimed	
							☐ Yes [☐ Yes [☐ Yes [☐ No ☐ No ☐ No	
В.		eign applic oplication	ation(s), if any, file	ed more th	an 12 mos. (6	mos for o	design) pr	ior to this	5
	Country Applica Filing d	ition No:							
C.	U.S. Pr	rovisional /	Application filed w	vithin 12 m	onths prior to	this appl	ication		
	<u>Serial l</u>	No.		<u>Filing C</u>)ate				
			·						
			PRIORITY	CLAIM (35	U.S.C. §120)				
PCT in nsofar applica acknow (namely mporta	ternation as the stion(s) in dedge the y, informant in de	nal applicat subject mat n the manr he duty to nation wher ciding whet	under Title 35, Unition(s) designating ter of each of the ner provided by the disclose information there is substantially the appartion(s) and the neather to allow the appartion(s) and the neather to allow the neather t	the United claims of the first para on that is tial likelihoopplication to	States of America application graph of Title material to the difference issue as a part of the part of	erica that is not disc 35, Unite e examinanable Examinable Examina	is/are listed to the closed in	ed below hat/those Code, §1 his applicated uld conside betweer	and, prior 12, I ation der it n the
			pplications have be cations have been		ows:				
	Serial N	<u>lo. Fil</u>	ing Date	Paten	ted	Status Pending	<u> </u>	bandoned	<u>l</u>

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Send correspondence to: Direct telephone calls to:

Patent Counsel Applied Materials, Inc. P.O. Box 450-A Santa Clara, CA 95052

Full name of sole or first inventor: KALLOL BERA

Raymond R. Moser, Jr. Moser, Patterson & Sheridan, LLP (732) 530-9404

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Inventor's signature: Date: Residence: 2100 Fruitdale Avenue, Apt. #6 San Jose, CA 95128 Post Office Address: Same as above U.S.A. Country of Citizenship: India Full name of second inventor: HEEYEOP CHAE Date: Inventor's signature: Residence: San Jose, CA 95124 Post Office Address: Same as above U.S.A. Country of Citizenship: South Korea

Tuli hame of time my	EIROL HAMID TAVASSOLI		
Inventor's signature:		Date:	
Residence:	907 Burbank Drive Santa Clara, CA 95051		
Post Office Address:	Same as above		
	U.S.A.	Country of Citizenship: U.S.A.	
Full name of fourth in	ventor: YAN YE		
Inventor's signature:		Date:	
Residence:	13271 Via Arriba Drive Saratoga, CA 95070		
Post Office Address:	Same as above U.S.A.	Country of Citizenship: U.S.A.	

(DECLARATION ENDS WITH THIS PAGE)